

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.  
D0250 NP  
APPLICATION NO.  
10/621,807  
APPLICANT  
DOWEYKO ET AL.  
FILING DATE  
JULY 17, 2003

Group



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
NN	AM	WO 03/015692	2/27/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
NN	AN	WO 2004/009017	1/29/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AO						<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

NN	AR	Arriza, J.L. et al., "Cloning of Human Mineralocorticoid Receptor Complementary DNA: Structural and Functional Kinship with the Glucocorticoid Receptor", Science, Vol. 237, pp. 268-275 (1987)
NN	AS	Baldwin, Jr., A.S., "The transcription factor NF- $\kappa$ B and human disease", The Journal of Clinical Investigation, Vol. 107, No. 1, pp. 3-6 (2001)
NN	AT	Bamberger, C.M. et al., "Glucocorticoid Receptor $\beta$ , a Potential Endogenous Inhibitor of Glucocorticoid Action in Humans", The Journal of Clinical Investigation, Vol. 95, pp. 2435-2441 (1995)

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NN	2AA	Bledsoe, R.K. et al., "Crystal Structure of the Glucocorticoid Receptor Ligand Binding Domain Reveals a Novel Mode of Receptor Dimerization and Coactivator Recognition", Cell, Vol. 110, pp. 93-105 (2002)
	2AB	Bourguet, W. et al., "Crystal structure of the ligand-binding domain of the human nuclear receptor RXR- $\alpha$ ", Nature, Vol. 375, pp. 377-382 (1995)
	2AC	Brandon, D.D. et al., "Genetic variation of the glucocorticoid receptor from a steroid-resistant primate", Journal of Molecular Endocrinology, Vol. 7, pp. 89-96 (1991)
	2AD	Caldenhoven, E. et al., "Negative Cross-Talk between RelA and the Glucocorticoid Receptor: A Possible Mechanism for the Antiinflammatory Action of Glucocorticoids", Molecular Endocrinology, Vol. 9, No. 4, pp. 401-412 (1995)
	2AE	Chakravarti, D. et al., "Role of CBP/P300 in nuclear receptor signalling", Nature, Vol. 383, pp. 99-103 (1996)
	2AF	Coghlan, M.J. et al., "Synthesis and Characterization of Non-Steroidal Ligands for the Glucocorticoid Receptor: Selective Quinoline Derivatives with Prednisolone-Equivalent Functional Activity", J. Med. Chem., Vol. 44, pp. 2879-2885 (2001)
	2AG	Da Silva, J.A. et al., "Optimizing Glucocorticoid Therapy in Rheumatoid Arthritis", Neuroendocrine Mechanisms in Rheumatic Disease, Rheumatic Disease Clinics of North America, Vol. 26, No. 4, pp. 859-880 (2000)
	2AH	Danielsen, M. et al., "The mouse glucocorticoid receptor: mapping of functional domains by cloning, sequencing and expression of wild-type and mutant receptor proteins", The EMBO Journal, Vol. 5, No. 10, pp. 2513-2522 (1986)
	2AI	Darimont, B.D. et al., "Structure and specificity of nuclear receptor-coactivator interactions", Genes & Development, Vol. 12, pp. 3343-3356 (1998)
	2AJ	Diamond, M.I. et al., "Transcription Factor Interactions: Selectors of Positive or Negative Regulation from a Single DNA Element", Science, Vol. 249, pp. 1266-1272 (1990)
	2AK	Eisenmann, G. et al., "Quand Les Cellules Scintillent", Le Technoscope De Biofutur, No. 151, p. 8 (1995)
	2AL	Elmore, S.W. et al., "Nonsteroidal Selective Glucocorticoid Modulators: the Effect of C-5 Alkyl Substitution on the Transcriptional Activation/Repression Profile of 2,5-Dihydro-10-methoxy-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-f]quinolines", J. Med. Chem., Vol. 44, pp. 4481-4491 (2001)
	2AM	Evans, R.M., "The Steroid and Thyroid Hormone Receptor Superfamily", Science, Vol. 240, pp. 889-895 (1988)
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NN	3AA	Francis, G.A. et al., "Nuclear Receptors and the Control of Metabolism", Annu. Rev. Physiol., Vol. 65, pp. 261-311 (2003)
	3AB	Giguère, V. et al., "Functional Domains of the Human Glucocorticoid Receptor", Cell, Vol. 46, pp. 645-652 (1986)
	3AC	Giguère, V. et al., "Identification of a new class of steroid hormone receptors", Nature, Vol. 331, pp. 91-94 (1988)
	3AD	Giguère, V. et al., "Orphan Nuclear Receptors: From Gene to Function", Endocrine Reviews, Vol. 20, No. 5, pp. 689-725 (1999)
	3AE	Grange, T. et al., "In vivo analysis of the model tyrosine aminotransferase gene reveals multiple sequential steps in glucocorticoid receptor action", Oncogene, Vol. 20, pp. 3028-3038 (2001)
	3AF	Green, S. et al., "Human oestrogen receptor cDNA: sequence, expression and homology to v-erb-A", Nature, Vol. 320, pp. 134-139 (1986)
	3AG	Greene, M.E. et al., "Isolation of the Human Peroxisome Proliferator Activated Receptor Gamma cDNA: Expression in Hematopoietic Cells and Chromosomal Mapping", Gene Expression, Vol. 4, pp. 281-299 (1995)
	3AH	Greschik, H. et al., "Structural and Functional Evidence for Ligand-Independent Transcriptional Activation by the Estrogen-Related Receptor 3", Molecular Cell, Vol. 9, pp. 303-313 (2002)
	3AI	Hager, L.J. et al., "Transcriptional regulation of mouse liver metallothionein-I gene by glucocorticoids", Nature, Vol. 291, pp. 340-342 (1981)
	3AJ	Hofmann, T.G. et al., "Various glucocorticoids differ in their ability to induce gene expression, apoptosis and to repress NF- $\kappa$ B-dependent transcription", FEBS Letters, Vol. 441, pp. 441-446 (1998)
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	3AM	Jonat, C. et al., "Antitumor Promotion and Antiinflammation: Down-Modulation of AP-1 (Fos/Jun) Activity by Glucocorticoid Hormone", Cell, Vol. 62, pp. 1189-1204 (1990)
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NN	4AA	Kalkhoven, E. et al., "Negative Interaction between the RelA(p65) Subunit of NF- $\kappa$ B and the Progesterone Receptor", The Journal of Biological Chemistry, Vol. 271, No. 11, pp. 6217-6224 (1996)
	4AB	Kallio, P.J. et al., "Androgen Receptor-Mediated Transcriptional Regulation in the Absence of Direct Interaction with a Specific DNA Element", Molecular Endocrinology, Vol. 9, No. 8, pp. 1017-1028 (1995)
	4AC	Kamei, Y. et al., "A CBP Integrator Complex Mediates Transcriptional Activation and AP-1 Inhibition by Nuclear Receptors", Cell, Vol. 85, pp. 403-414 (1996)
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	4AK	Mangelsdorf, D.J. et al., "Nuclear receptor that identifies a novel retinoic acid response pathway", Nature, Vol. 345, pp. 224-229 (1990)
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	4AM	Miesfeld, R. et al., "Characterization of a steroid hormone receptor gene and mRNA in wild-type and mutant cells", Nature, Vol. 312, pp. 779-781 (1984)
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	5AB	Miura, T. et al., "Functional Modulation of the Glucocorticoid Receptor and Suppression of NF- $\kappa$ B-dependent Transcription by Ursodeoxycholic Acid", The Journal of Biological Chemistry, Vol. 276, No. 50, pp. 47371-47378 (2001)
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	5AD	Nolte, R.T. et al., "Ligand binding and co-activator assembly of the peroxisome proliferator-activated receptor- $\gamma$ ", Nature, Vol. 395, pp. 137-143 (1998)
	5AE	Palvimo, J.J. et al., "Mutual Transcriptional Interference between RelA and Androgen Receptor", The Journal of Biological Chemistry, Vol. 271, No. 39, pp. 24151-24156 (1996)
	5AF	Peltz, G., "Transcription factors in immune-mediated disease", Current Opinion in Biotechnology, Vol. 8, pp. 467-473 (1997)
	5AG	Petkovich, M. et al., "A human retinoic acid receptor which belongs to the family of nuclear receptors", Nature, Vol. 330, pp. 444-450 (1987)
	5AH	Reichardt, H.M. et al., "DNA Binding of the Glucocorticoid Receptor Is Not Essential for Survival", Cell, Vol. 93, pp. 531-541 (1998)
	5AI	Reichardt, H.M. et al., "Repression of inflammatory responses in the absence of DNA binding by the glucocorticoid receptor", The EMBO Journal, Vol. 20, No. 24, pp. 7168-7173 (2001)
	5AJ	Renaud, J.-P. et al., "Crystal structure of the RAR- $\gamma$ ligand-binding domain bound to all- <i>trans</i> retinoic acid", Nature, Vol. 378, pp. 681-689 (1995)
	5AK	Reynolds, P.D. et al., "Cloning and Expression of the Glucocorticoid Receptor from the Squirrel Monkey ( <i>Saimiri boliviensis boliviensis</i> ), a Glucocorticoid-Resistant Primate", Journal of Clinical Endocrinology and Metabolism, Vol. 82, No. 2, pp. 465-472 (1997)
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	5AM	Ringold, G.M. et al., "Dexamethasone-Mediated Induction of Mouse Mammary Tumor Virus RNA: a System for Studying Glucocorticoid Action", Cell, Vol. 6, pp. 299-305 (1975)
NN	5AN	Rochel, N. et al., "The Crystal Structure of the Nuclear Receptor for Vitamin D Bound to Its Natural Ligand", Molecular Cell, Vol. 5, pp. 173-179 (2000)

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NN	6AA	Rusconi, S. et al., "Functional dissection of the hormone and DNA binding activities of the glucocorticoid receptor", The EMBO Journal, Vol. 6, No. 5, pp. 1309-1315 (1987)
	6AB	Scheidereit, C. et al., "The glucocorticoid receptor binds to defined nucleotide sequences near the promoter of mouse mammary tumour virus", Nature, Vol. 304, pp. 749-752 (1983)
	6AC	Shiau, A.K. et al., "Structural characterization of a subtype-selective ligand reveals a novel mode of estrogen receptor antagonism", Nature Structural Biology, Vol. 9, No. 5, pp. 359-364 (2002)
	6AD	Sierk, M.L. et al., "DNA Deformability as a Recognition Feature in the RevErb Response Element", Biochemistry, Vol. 40, pp. 12833-12843 (2001)
	6AE	Stanbury, R.M. et al., "Systemic corticosteroid therapy — side effects and their management", Br. J. Ophthalmol., Vol. 82, pp. 704-708 (1998)
	6AF	Stöcklin, E. et al., "Functional interactions between Stat5 and the glucocorticoid receptor", Nature, Vol. 383, pp. 726-728 (1996)
	6AG	Takamatsu, Y. et al., "A New Method for Predicting Binding Free Energy Between Receptor and Ligand", Proteins: Structure, Function, and Genetics, Vol. 33, pp. 62-73 (1998)
	6AH	Tanenbaum, D.M. et al., "Crystallographic comparison of the estrogen and progesterone receptor's ligand binding domains", Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 5998-6003 (1998)
	6AI	Valentine, J.E. et al., "Mutations in the Estrogen Receptor Ligand Binding Domain Discriminate between Hormone-dependent Transactivation and Transrepression", The Journal of Biological Chemistry, Vol. 275, No. 33, pp. 25322-25329 (2000)
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	6AL	Wang, Y. et al., "A Second Binding Site for Hydroxytamoxifen within the Ligand-Binding Domain of Estrogen Receptor $\beta$ ", The Endocrine Society, Meeting June 2003, Presentation No. OR34-1, p. 106 (2003)
	6AM	Wang, Z. et al., "Structure and function of Nurr1 identifies a class of ligand-independent nuclear receptors", Nature, Vol. 423, pp. 555-560 (2003)
NN	6AN	Watkins, R.E. et al., "The Human Nuclear Xenobiotic Receptor PXR: Structural Determinants of Directed Promiscuity", Science, Vol. 292, pp. 2329-2333 (2001)

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NN	7AA	Weinberger, C. et al., "Identification of Human Glucocorticoid Receptor Complementary DNA Clones by Epitope Selection", Science, Vol. 228, pp. 740-742 (1985)
NN	7AB	Williams, S.P. et al., "Atomic structure of progesterone complexed with its receptor", Nature, Vol. 393, pp. 392-396 (1998)
NN	7AC	Yamamoto, K. et al., "Transcriptional Roles of Nuclear Factor $\kappa$ B and Nuclear Factor-Interleukin-6 in the Tumor Necrosis Factor $\alpha$ -Dependent Induction of Cyclooxygenase-2 in MC3T3-E1 Cells", The Journal of Biological Chemistry, Vol. 270, No. 52, pp. 31315-31320 (1995)
NN	7AD	Yang, K. et al., "Characterization of an ovine glucocorticoid receptor cDNA and developmental changes in its mRNA levels in the fetal sheep hypothalamus, pituitary gland and adrenal", Journal of Molecular Endocrinology, Vol. 8, pp. 173-180 (1992)
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NN	7AF	Zhang, S. et al., "Role of the C Terminus of the Glucocorticoid Receptor in Hormone Binding and Agonist/Antagonist Discrimination", Molecular Endocrinology, Vol. 10, No. 1, pp. 24-34 (1996)
	7AG	RCSB Protein Data Bank Reference 1NHZ
	7AH	RCSB Protein Data Bank Reference 1LBD
	7AI	RCSB Protein Data Bank Reference 2PRG
	7AJ	RCSB Protein Data Bank Reference 2LBD
	7AK	RCSB Protein Data Bank Reference 1A28
	7AL	RCSB Protein Data Bank Reference 1DB1
	7AM	RCSB Protein Data Bank Reference 1E3G
	7AN	RCSB Protein Data Bank Reference 1A52
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8AA	RCSB Protein Data Bank Reference 1L2J
8AB	RCSB Protein Data Bank Reference 1BSX
8AC	RCSB Protein Data Bank Reference 1HLZ
8AD	RCSB Protein Data Bank Reference 1ILH
8AE	RCSB Protein Data Bank Reference 1KV6
8AF	RCSB Protein Data Bank Reference 1OVL
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8AH	PIR Accession Number A29613
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8AJ	GenBank Accession Number AF141371
8AK	GenBank Accession Number L13196
8AL	GenBank Accession Number U87953
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8AN	GenBank Accession Number M14053

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NN	AB	6,236,946	5/22/01	Scanlan et al.			
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NN	AR	Agius, C. et al., "Identification of a glucocorticoid receptor in the human leukemia cell line K562", J. Lab Clin Med, Vol. 100, pp. 178-185 (1982)
NN	AS	Baumann, H. et al., "Refined Solution Structure of the Glucocorticoid Receptor DNA-Binding Domain", Biochemistry, Vol. 32, pp. 13463-13471 (1993)
NN	AT	Dey, R. et al., "Homology modelling of the ligand-binding domain of glucocorticoid receptor: binding site interactions with cortisol and corticosterone", Protein Engineering, Vol. 14, No. 8, pp. 565-571 (2001)

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NN	2AA	Goldstein, R. et al., "Three-dimensional model for the hormone binding domains of steroid receptors", Proc Natl Acad Sci USA, Vol. 90, pp. 9949-9953 (1993)
NN	2AB	Makino, S. et al., "Automated Flexible Ligand Docking Method and Its Application for Database Search", J Comput Chem , Vol. 18, pp. 1812-1825 (1997)
NN	2AC	Tapia, O. et al., "Computer Assisted Simulations and Molecular Graphics Methods in Molecular Design. 1. Theory and Applications to Enzyme Active-Site Directed Drug Design", Molecular Engineering, Vol. 3, pp. 377-414 (1994)
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\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

*(use as many sheets as necessary)*

Sheet

of 1

**COMPLETE IF KNOWN**

Application Number	10/621,807
Filing Date	07/17/2003
First Named Inventor	Doweyko et al.
Art Unit	1656
Examiner Name	NASHED, NASHAAT T
Attorney Docket Number	D0250 NP

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

/Nashaat Nashed/ (12/13/2006)

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant